

FIC VC37 SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

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Supervisor	Tester

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**Revision History**

Document Release	Date	Change Item	ECN
Revision 1.00	6/19/2002	Initial Release.	
Revision 1.01	9/23/2002	BIOS update version to IEN43 Add support Intel P4 Northwood 2.5GHz CPU . Intel Celeron 2.0GHz CPU .	M02102-E-035



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1. Introduction

FIC's motherboards undergo a comprehensive suite of stringent software and hardware compatibility tests to ensure that they can not only run a complete range of operating systems and software packages, but that they can also be installed with a full selection of add-on cards and peripheral devices, such as VGA, SCSI, and network adapters as well as HDDs, FDDs, CD-ROM Drives and Fax/Modems. A board is deemed to have passed the compatibility testing suite when it has met the following criteria:

- All application software available for IBM compatible products works properly.
- All common internal and external hardware available to the IBM AT-Bus and PCI compatible systems functions properly.
- All hardware and software can be installed according to the instructions provided to the user.
- All legal configurations (IRQ , I/O addresses, DMA levels) function properly.
- All applications have been tested with and without drivers provided on the support disk.
- All operating systems have been installed and tested with each processor, with and without the most critical mode selected by setup.

2. Mainboard Features

Model Name : VC37 PCB Rev 1.3
Product Name : Intel 845GL Based Mainboard
System BIOS : Award BIOS Version IEN43
PCI IDE : Internal PCI Mastre dual IDE
LPC : SMsC LPC47M192-NC

3. Mainboard CPU Supports:

Intel : (Celeron/L2 cache 128KB)

Intel Processors	FSB	Package	Status
Celeron 1.7GHz	400	FC-PGA2	Pass
Celeron 1.8GHz	400	FC-PGA2	Pass
Celeron 1.9GHz	400	FC-PGA2	Pass
Celeron 2.0GHz	400	FC-PGA2	Pass

Intel : (Willamette/L2 cache 256KB)

Intel Processors	Bus	Package	Status
Pentium 4 1.4GHz	400	FC-PGA2	Pass
Pentium 4 1.5GHz	400	FC-PGA2	Pass
Pentium 4 1.6GHz	400	FC-PGA2	Pass
Pentium 4 1.7GHz	400	FC-PGA2	Pass
Pentium 4 1.8GHz	400	FC-PGA2	Pass
Pentium 4 1.9GHz	400	FC-PGA2	Pass
Pentium 4 2.0GHz	400	FC-PGA2	Pass

Intel : (Northwood/L2 cache 512KB)

Intel Processors	Bus	Package	Status
Pentium 4 1.6GHz	400	FC-PGA2	Pass
Pentium 4 1.8GHz	400	FC-PGA2	Pass
Pentium 4 2.0GHz	400	FC-PGA2	Pass
Pentium 4 2.2GHz	400	FC-PGA2	Pass
Pentium 4 2.4GHz	400	FC-PGA2	Pass
Pentium 4 2.5GHz	400	FC-PGA2	Pass

4. System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	Intel 845GL + ICH4
System Cache	256/512K Pipeline Burst SRAM Built-in CPU
System Memory	DDR200/266 (PC1600/2100) Support
	Maximum : 2GB DDR DRAM
	184 pins single RAS and Double RAS DDR SDRAM Module
System Slots	1 DVO ,3 PCI and 1 CNR slots
Audio	Realtek ALC201 AC'97 Audio codec support 2 Channel
	Realtek ALC650 AC'97 Audio codec support 5.1 Channel (Option)
LAN (Option)	Realtek RTL8100BL 10/100 LAN Chip Onboard
LPC	SMsC LPC47M192-NC Support Normal,EPP,ECP mode and IR interface

4.1 Main Functionality :

Num.	M/B function	Result
1	ACPI Ready (support S0/S1/S3/S4/S5)	PASS
2	Wake On LAN / Wake On Ring	PASS
3	RTC Alarm Function	PASS
4	NOVUS II BIOS Easy Kit	PASS
	BIOS Flash Protect (Guardian feature)	PASS
5	Ultra ATA-33/66/100 Enhanced IDE Interface	PASS
6	Onboard Realtek ALC201/650 AC'97 Audio	PASS
7	Onboard Realtek RTL8100BL LAN	PASS
8	USB 1.1/2.0 Function (Front/Rear)	PASS
9	CNR Modem Function	PASS
10	DVO slot support	PASS
11	Power Failure feature	PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	Intel 845GL Video driver for Win 9x/ME	4.13.01.3069	PASS
2	Intel 845GL Video driver for Win XP/2000	6.13.01.3069	PASS
3	Intel Chipset Patch File (INF)	4.00.1009	PASS
4	ALC201/650 codec driver for Win 9x/ME/2000/XP	5.10.00.3850	PASS
5	Realtek RTL8100BL LAN driver for Win 9x/ME/2000/XP	3.97	PASS
6	Award BIOS Flash ROM Utilities	8.10b	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED (Single color-2/3 pin)	Power_LED	Open	Pass
Power LED (Dual color)	Power_LED	Open	Pass
IDE LED Connector	HD_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	PW_SW	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Chipset FAN Connector	CHIP_FAN	Open	Pass
Chassis FAN Connector	SYS_FAN	Open	Pass
Clear CMOS	CLR_CMOS	1-2	Pass
IR interface	IR	Open	Pass
Front Audio Connector	FNT_Audio	Open	Pass
COM2 Connector	COM2	Open	Pass
USB 4/5 Connector	USB 4/5	Open	Pass
CD_IN Connector (RGGL)	CD_IN	Open	Pass
AUX_IN Connector	AUX_IN	Open	Pass
Wake On LAN	WOL	Open	Pass

6. Stability Test

6.1 CPU Over Clock Test:

System Configuration	
CPU : Intel P4 2.2GHz (Northwood)	FDD : NEC FD1231T 1.44MB
Cache Memory : 512KB	Audio : Onboard Realtek ALC201 AC'97
Memory : JSI DDR266 256MB X 2 (NEC)	LAN : Onboard Realtek 8100BL
HDD (ATA/100) : WD Caviar 1200 120GB	Mouse : Microsoft PS/2 mouse
VGA : Onboard Intel 845GL AGP	Power Supply : Enlight HPC-340-01 ATX 340W
DVD-ROM : Pioneer DVD-116 16X DVD	O.S. Environment: Windows XP/Home Edition

NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	S3	Winstone 2001	3D Mark2001
1	102MHz	2.24GHz	Pass	Pass	Pass	51.0	1397
2	105MHz	2.31GHz	Pass	Pass	Pass	51.7	1434

6.2 Stress Test:

System Configuration	
CPU : Intel P4 2.2GHz (Northwood)	FDD : NEC FD1231T 1.44MB
Cache Memory : 512 K	Audio : Onboard ALC201 AC'97 Audio
Memory : SEC DDR266 256MB x 2	LAN : Onboard Realtek 8100BL
HDD 1(ATA/100) : Maxtor 54098H8 40.9GB	Mouse : Microsoft PS/2 mouse
HDD2 (ATA/100) : Seagate ST-340810A 40GB	PowerSupply : Seventeam ST-250BLV ATX 250W
HDD3 (ATA/100) : Maxtor 4W100H6 100GB	O.S. Environment: Windows XP/Home Edition
DVD-ROM : Actima AD12H 12X DVD	
VGA : Onboard Intel 845GL AGP	

Test Result						
BIOS detect	Install OS	All driver install	PM	CC WS 2002	Stress burn in	DVD/VCD play
Pass	Pass	Pass	Pass	32.4	Pass	Pass

6.3 PCB Cool Boot Test: (12 hours)

System Configuration	
CPU : Intel P4 1.7GHz(Willamette)	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	PowerSupply : Hopely ATX-250SE-P4 250W
Memory : Apacer DDR266 256MB x 2	
VGA : Onboard Intel 845GL AGP	

Test Result	
Cool Boot (over 500 times)	Pass

7. Field (Stress) Test: Dynamic Burn-in Tests

Software Name	Duration	Result
CC Winstone 2002	12hr.	<i>Pass</i>
Test Configurations for Win ME	Intel Pentium 4 2.4GHz (Northwood) Maxtor 54098H8 ATA/100 40.9GB HDD Apacer 256MB DDR266 Memory.(Nanya) X 2 Onboard Intel 845GL AGP	
CC Winstone 2002	12hr.	<i>Pass</i>
Test Configurations for Windows 2000	Intel Pentium 4 1.7GHz (Willamette) Maxtor 34098H8 ATA/100 40.9GB HDD Infineon 128MB DDR266 Memory. X 2 Onboard Intel 845GL AGP	
3D MARK 2001 SE	12hr.	<i>Pass</i>
Test Configurations for Windows XP	Intel Pentium 4 2.0GHz (Northwood) Maxtor 4D040K2 ATA/100 40GB HDD Hynix 256MB DDR266 Memory.(Hynix) X 2 Onboard Intel 845GL AGP	
BCM	12hr.	<i>Pass</i>
Test Configurations for Windows ME	Intel Pentium 4 1.7GHz (Willamette) IBM DTLA-305020 ATA/100 20GB HDD Elixir 256MB DDR266 Memory.(elixir) X 2 Onboard Intel 845GL AGP	
DVD Play (Deep Blue Sea)	12hr.	<i>Pass</i>
Test Configurations for Windows XP	Intel Pentium 4 2.0GHz (Northwood) Seagate ST-320414A ATA/100 20GB HDD Transcend 128MB DDR266 Memory.(Nanya) X 2 Onboard Intel 845GL AGP PowerDVD XP 4.0	

8. Hardware Compatibility Test Suite

8.1 Memory

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
☒ Win 2000 Ver: 5.00.2195

CPU Intel Pentium 4 2.4GHz(Northwood) ☒ Intel

HDD Maxtor 4W100H6 100GB IDE ☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

VGA Intel 845GL AGP

☒ Onboard ☐ AGP 4X

CD-ROM Panasonic SR-8587-B 16X DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound Realtek ALC201 AC'97

☐ PCI_Slot: ☒ On board

LAN Realtek RTL8100BL

☐ PCI_Slot: ☒ On board

Mouse Microsoft IntelliMouse PS/2 Mouse

☐ COM ☒ PS/2

The following DDR DRAM module test Winstone 2001/Copy large files(over 500MB)/ 3D Mark 2001 under Windows XP/2000 with BIOS set up default value and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

DDR DRAM Module (DDR266/PC2100)

Vender	IC Part No.	Size	Side	Module No.
Micron	MT46V8M8-75	128MB	D	MT16VDDT1664AG-265A2
	MT46V16M8-75A	128MB	S	MT8VDDT1664AG-265A1
	MT46V16M8-75A	256MB	D	MT16VDDT3264AG-265A1
	MT46V32M8-75	512MB	D	MT16VDDT6464AG-265B1
Samsung	K4H280838B-TCB0	256MB	D	M368L3313BT1-CB0
	K4H560838B-TCB0	512MB	D	M368L6423BT1-CB0Q0
JSI	D45D128842G5-C80-9LG (NEC)	256MB	D	
Apacer	K4H280838B-TCB0 (Samsung)	128MB	D	77.10304.460
	K4H280838B-TCB0 (Samsung)	256MB	D	77.10204.460
	NT5DS16M8AT-7K (Nayna)	256MB	D	77.10203.540
Crucial	MT46V16M8-75A (Micron)	128MB	S	CT1672Z265.9T
	MT46V16M8-75A (Micron)	256MB	D	CT3272Z265.18T
KingMax	KDL684T4A2A-07A	128MB	S	MPDA82D-68KX2
	KDL684T4A2A-07A	256MB	D	MPDB62D-68KX2
Transend	NT5DS16M8AT-7K (Nanya)	128MB	S	TS16MLD64V6D5
	NT5DS16M8AT-7K (Nanya)	256MB	D	TS32MLD64V6D5
	MT46V16M8-75A (Micron)	128MB	D	TS16MLD64V6D5
	W942508AH-75 (Winbond)	512MB	D	
Infineon	HYB25D128800AT-7	128MB	D	HYS64D16000GU-7-A
	HYB25D256800AT-7	256MB	D	HYS64D32000GU-7-A
	HYB25D256800AT-7	512MB	D	HYS64D64020GU-7-A
Kingston	NT5DS16M8AT-7K (Nanya)	256MB	D	KVR266X64C25/256
	W942508AH-75 (Winbond)	256MB	S	KVR266X64C25/256
	W942508AH-75 (Winbond)	512MB	D	KVR266X64C25/512
elixir	N2DS12880AT-75B	256MB	D	M2U25664DS8HA0G-75B
TwinMOS	HY5DU28822AT-K	256MB	D	

takeMS	MS25D12880S-7 (takeMS)	256MB	D	MS64D32020U-7
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8.2 Add-on Cards

8.2.1 PCI Display/DVO Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
CPU Intel Pentium 4 2.0GHz (Northwood) ☒ Intel
HDD Seagate ST-320414A 20GB IDE ☒ ATA/66 ☒ ATA/100
Channel: ☒ PM ☒ PS ☒ SM ☒ SS
Memory KingSton 256MB(Winbond) **Total:** 512 MB ☒ PC1600 ☒ PC2100
CD-ROM Pioneer DVD-115 16X IDE DVD **Channel:** ☒ PM ☒ PS ☒ SM ☒ SS
Sound Realtek ALC201 AC'97 **PCI_Slot:** ☒ On board
Mouse Logitech MouseMan Mouse **COM** ☒ PS/2

The following DVO/PCI VGA cards test display quality/ZD Winbench 99/Suspend to RAM(S3) under Windows XP with their respective drivers installed and set to the follow condition 1024 x 768 x 16bit colors(PCI VGA) and NTSC/PAL(TV Out), resolution refresh rate of 85Hz, small font.

DVO Adapter Products

Vendor	Chipset	Output Type
CHRONTEL	CHRONTEL CH7009A-T	DVI,TV Out
Silicon Image	Silicon Sil164CT64	DVI

PCI Display Adapter Products

Vendor	Model Name	Product Description	Driver version
Creative	S3 Savage 4	3D Blaster Savage 4	OS Default
Cardex	SiS 6326	Cardexpert 6326	OS Default
3dfx	Voodoo 3-3000	3dfx Voodoo 3-3000 PCI	OS Default
	Voodoo 5-5500	3dfx Voodoo 5-5500 PCI	OS Default

8.2.2 SCSI Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
☒ Win 2000 Ver: 5.00.2195 .
CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory Samsung 256MB (Samsung) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
HDD Seagate ST-39204LW 9GB ☐ Ultra II SCSI ☒ Ultra Wide
CD-ROM Afreedy CD-2050S 50X SCSI CD-ROM ☒ Ultra SCSI ☐ Ultra Wide
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: ☒ On board
LAN 3COM 3C905C-TX ☒ PCI_Slot: 3 ☐ On board
Mouse Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following PCI SCSI cards run Winstone 2001/Copy large files(over 500MB) under Windows XP/2000 with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

Vendor	Model Name	Product Description	Bus I/F
Adaptec	ASC-19160	Adaptec Ultra 160 PCI SCSI card 19160	PCI
	ASC-29160N	Adaptec ASC-29160N PCI SCSI card	PCI
	ASC-29160	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-39160	Adaptec Ultra 160 PCI SCSI card 39160	PCI

8.2.3 PCI Modem Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory JSI 256MB (NEC) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
HDD WD Caviar 1200 120GB IDE ☐ ATA/66 ☒ ATA/100
CD-ROM Pioneer DVD-116/2 16X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: ☒ On board
LAN Realtek RTL8100BL ☐ PCI_Slot: ☒ On board
Mouse Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following PCI modem card test includes connecting to the internet,download files and test S1/S3/S4 under under Windows XP with their respective modem drivers installed .

Vendor	Product Description	Bus I/F
Askey	1456VQH75	PCI
	1456VQH-R4 INT1	PCI

8.2.4 CNR Modem Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
☒ Win 2000 Ver: 5.00.2195 .
CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory Samsung 512MB(Samsung) **Total:** 1000 MB ☐ PC1600 ☒ PC2100
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
HDD Maxtor 54098H8 40.9GB IDE ☒ ATA/66 ☐ ATA/100
CD-ROM Actima AD12H 12X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
Sound Realtek ALC201 AC'97 **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
LAN Realtek RTL8100BL **PCI_Slot:** ☒ On board
Mouse Microsoft IntelliMouse PS/2 Mouse **PCI_Slot:** ☒ On board
COM ☐ COM ☒ PS/2

The following CNR card test includes connecting to the internet,download files and test S1/S3/S4 under under Windows XP/2000 with their respective modem drivers installed .

Vendor	Product Description	Type
Castle Net	56KV.90 Modem Riser Card (MC810)	Modem
TAICOM	56KV.90 Modem Riser Card (MC810)	Modem
Well	56KV.90 Modem Riser Card (MC810)	Modem

8.2.5 PCI IDE RAID Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Transcend 256MB(Nanya) **Total:** 512 MB ☐ PC1600 ☒ PC2100
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
HDD1 Maxtor 6L040L2 40GB IDE ☐ ATA/100 ☒ ATA/133
HDD2 Maxtor 6L080J4 80GB IDE ☐ ATA/100 ☒ ATA/133
CD-ROM Aopen DVD1648 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound Realtek ALC201 AC'97 **PCI_Slot:** ☒ On board
Mouse Microsoft IntelliMouse PS/2 Mouse **COM** ☐ COM ☒ PS/2

The following PCI RAID card test RAID 0/1 under Windows XP with their respective drivers installed.

Vendor	Product Description	Chip
Promise	Fast TRAK100 ATA RAID Controller Card	PROMISE PDC20267

8.3 Storage

8.3.1 SCSI Peripheral Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
☒ Win 2000 Ver: 5.00.2195 .
CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory Transend 256MB (Samsung) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
SCSI Adaptec ASC-29160N Ultra160 ☐ ISA ☒ PCI_Solt: 2 .
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: . ☒ On board
Mouse Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following SCSI devices test and WinStone 2001/Copy large files(over 500MB) under Windows XP/2000 with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

ITEM	Vendor	Model Name	Product Description
Hard Disk	IBM	COMP IEC-950	Ultra2 Wide 9.1GB
		COMP IEC-950	Ultra2 Wide 36GB
		DDRS-39130	UltraII SCSI HDD 9.1GB
		DDYS-T36950	Ultra2 Wide 36.7GB
	Seagate	ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST39236LW	Barracuda Ultra160 Wide 9GB
		ST318436LW	Barracuda Ultra160 Wide 18GB
		ST39204LW	Cheetah Ultra160 Wide 9GB
		ST318404LW	Cheetah Ultra160 Wide 18GB
CD-ROM	Plextor	PX-40Tsi	Ultra SCSI CD-ROM 40X
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X
	Panasonic	CR-508	SCSI-II CD-ROM 24X
	SONY	CDU-625	SCSI-II CD-ROM 24X
	TEAC	CD-532S	Ultra SCSI CD-ROM 32X
	Afreedy	CD-2050S	Ultra SCSI CD-ROM 50X
	TEAC	CDR 56S	(24R6W) CD-RW 24X
	Nichimen	CDR-BP3N	(32R12W10RW) CD-RW 32X
	Plextor	PX-W124Tsi	(32R12W4RW) CD-RW 32X
	YAMAHA	CRW2100S	(40R16W10RW) CD-RW 40X

8.3.2 IDE Fixed Disk Drive Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
☒ Win 2000 Ver: 5.00.2195 .
CPU Intel Pentium 4 2.4GHz(Northwood) ☒ Intel
Memory KingMax 256MB (KingMax) **Total:** 512 MB ☐ PC1600 ☒ PC2100
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
CD-ROM NEC DV-5800A 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: ☒ On board
LAN Realtek RTL8100BL ☐ PCI_Slot: ☒ On board
Mouse Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following IDE devices test and WinStone 2001/Copy large files(over 500MB) under Windows XP/2000 with OS default drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

IDE ATA/100

Vendor	Model Name	Capacity
IBM	DTLA-307015	15.3GB
	DTLA-305020	20.5GB
	DTLA-307020	20.5GB
	DTLA-307030	30.7GB
	IC35L040AVER07-0	40GB
	DTLA-307045	46.1GB
	DTLA-307060	61.4GB
	IC35L060A	61.5GB
	DTLA-307075	76.8GB
Maxtor	51536H2	15.3GB
	52049H4	20.4GB
	53073H6	30.6GB
	34098H4	40.9GB
	54098H8	40.9GB
	4K040H2	40GB
	5T060H6	61GB
	98196H8	80GB
	4K080H4	80GB
	4W100H6	100GB
Seagate	ST320414A	20GB
	ST330631A	30.6GB
	ST340016A	40GB
	ST340810A	40GB
	ST340824A	40GB
	ST380020A	80GB

	ST380021A	80GB
WD	Caviar WD300BB	30GB
	Caviar WD400BB	40GB
	Caviar WD600BB	60GB
	Caviar WD800BB	80GB
	Caviar WD800JB	80GB
	Caviar WD1000BB	100GB
	Caviar WD1200BB	120GB
	Caviar WD1200JB	120GB
Samsung	SV3063H	30.6GB
	SV4084H	40.8GB

IDE ATA/133

Vendor	Model Name	Capacity
Maxtor	6L040J2	40GB
	6L060J3	60GB
	6L080J4	80GB
	4G160JB	160GB

*Intel ICH4 South Bridge doesn't support ATA/133 transfer mode, so these ATA/133 HDD run ATA/100.

8.3.3 ATAPI CD-ROM /DVD-ROM Device Product

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
CPU Intel Pentium 4 1.5GHz(Willamette) ☒ Intel
Memory Transcend 128MB (Micron) **Total: 256 MB** ☐ PC1600 ☒ PC2100
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
HDD WD Caviar WD1200JB 120GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: ☒ On board
Mouse Logitech TrackmanMarble Mouse ☐ COM ☒ PS/2

The following IDE devices test play VCD or DVD/Copy large files(over 500MB) under windows XP with OS default drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

8.3.3.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
LITE-ON	LTN-403L	ATAPI CD-ROM 40X UDMA33
	LTN-485S	ATAPI CD-ROM 48X UDMA33
Acer	650P	ATAPI CD-ROM 50X UDMA33
AOpen	CD-952E/AKH	ATAPI CD-ROM 52X UDMA33
TEAC	CD-540E	ATAPI CD-ROM 40X Mode4

Creative	CD4833E	ATAPI CD-ROM 48X Mode4
	CD5220E	ATAPI CD-ROM 52X Mode4
ASUS	CD-S500/A	ATAPI CD-ROM 50X UDMA33
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X Mode4
SONY	CDU4811	ATAPI CD-ROM 48X UDMA33
Pioneer	DR-744	ATAPI CD-ROM 36X Mode4
LG	CRD-8522B	ATAPI CD-ROM 52X Mode4

8.3.3.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
ASUS	DVD-E612	ATAPI DVD-ROM 12X
	DVD-E616	ATAPI DVD-ROM 16X (UDMA100)
SONY	DDU1211	ATAPI DVD-ROM 12X
	DDU1621	ATAPI DVD-ROM 16X
Pioneer	DVD-105S	ATAPI DVD-ROM 16X
	DVD-115	ATAPI DVD-ROM 16X
	DVD-106S/2	ATAPI DVD-ROM 16X (UDMA66)
	DVD-116/2	ATAPI DVD-ROM 16X (UDMA66)
Actima	AD16H	ATAPI DVD-ROM 16X
Panasonic	SR-8587-B	ATAPI DVD-ROM 16X
	LF-D211V	4.7GB DVD-RAM
Creative	DVD1242E	ATAPI DVD-ROM 12X
Acer	DVP 1640A	ATAPI DVD-ROM 16X
LG	DRD-8120B	ATAPI DVD-ROM 12X
NEC	DV-5700B	ATAPI DVD-ROM 12X (UDMA33)
	DV-5800A	ATAPI DVD-ROM 16X (UDMA33)
Lite-On	LTD-122	ATAPI DVD-ROM 12X
	LTD-163	ATAPI DVD-ROM 16X

8.4 Peripherals

8.4.1 Parallel/Serial Port Products (Including IR)

Test Configuration:

OS Ver ☒ Win XP Ver: 2002.
CPU Intel Pentium 4 1.8GHz(Willamette) ☒ Intel
Memory Samsung 256MB(Samsung) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD Seagate ST-340824A 40GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS DVD-E612 12X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: __. ☒ On board
LAN Realtek RTL8100BL ☐ PCI_Slot: __. ☒ On board
Mouse Logitech TrackMan Marble Mouse ☐ COM ☒ PS/2

The following Parallel/Serial/IR devices be tested under Windows XP with OS default drivers installed.

Vendor	Product Description	Bus I/F
Mustek	Plug-N-Scan 1200CP EPP Scanner	LPT
Iomega	Parallel ZIP250	LPT
HP	LaserJet 6P	LPT/IR
	DeskJet 840c	LPT
	DeskJet 990cxi	LPT
	DeskJet 1220c	LPT
EPSON	Stylus Color 740	LPT
	Stylus Color 900	LPT
WACOM	Intuos Graphics Tablet	COM
ELSA	MicroLink 56K Internet	COM
Logitech	WingMan Formula Force joystick	COM
Kodak	DC210 InfraRed/Serial port Digital camera	COM
ACTisys	ACT-IR210L Receiver/Transceiver	IR

8.4.2 Mouse Products

Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000.
CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory Elixir 256MB (elixir) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD IBM DTLA-305020 20GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS CD-S400/A 40X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: __. ☒ On board

The following Mouse devices test Office 2000 and Game under Windows ME with Mouse drivers installed.

Vendor	Product Description	Bus I/F
Microsoft	Optical U/P Mouse (X05-48976)	USB/PS2
	Optical U/P Mouse (X06-25122)	USB/PS2
	Explorer 3.0 U/P Mouse (X06-25120)	USB/PS2
	TrackBall Explorer 1.0 U/P Mouse (X05-87473)	USB/PS2
Logitech	MouseMan (M-CV46)	COM/PS2
	MouseMan Dual Optical (M-BL63B)	COM/PS2
eMachines	M-S34 (Logitech)	PS2
Samsung	Cyber Beetle Mouse (Optical)	PS2
Genius	NetScroll Optical	PS2
	NetScroll+ Eye Optical	PS2
	NetScroll+ NB Eye Optical	USB/PS2
LEO	Niche-N202	PS2
	LEO-WIN	PS/2

8.4.3 USB Device Products

Test Configuration:

OS Ver ☒ Win XP **Ver:** 2002
CPU Intel Pentium 4 2.0GHz(Northwood) ☒ Intel
Memory Crucial 256MB(Micron) **Total:** 512 MB ☐ PC1600 ☒ PC2100
HDD Seagate ST-380020A 80GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS DVD-E612 12X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA Intel 845GL AGP ☒ Onboard ☐ AGP 4X
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: ☒ On board
Mouse Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following USB devices be tested under Windows XP with Win XP default driver installed.

Type	Vendor	Description
Mouse	Logitech	USB Wheel Mouse (M-BB48)
		USB MouseMan Wheel (M-BA47)
		USB Wheel Mouse (Optical) (M-BD58)
		MouseMan Dual Optical (M-BL63B)
	Microsoft	IM Optical U/P Mouse (X05-48976)
		IM Optical U/P Mouse (X06-25122)
		IM Explorer 3.0 U/P Mouse (X06-25120)
		TrackBall Explorer U/P Mouse (X05-87473)
		Wireless Explorer USB Mouse (X08-12616)

	Cypress	7-895 Mouse
HUB	Belkin	Express Bus F5U001
	SOHOUSB	Unique Energy Saving (4-Port USB Hub)
Camera	Intel	YC72
	Kodak	DVC323
	IBM	XVP610
Keyboard	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard Pro
Printer	HP	DeskJet 840c
		DeskJet 990cxi
		DeskJet 1220c
	EPSON	Stylus Color 740
		Stylus Color 900
Scanner	EPSON	GT-7000
		Perfection 2450 Photo
	HP	ScanJet 4200C
Ethernet	CATC	USB Ethernet Link
Speaker	YAMAHA	YST-MS35D
MO	OLYMPUS	Turbo MO MINI (MOS3390S)
ZIP	iomega	ZIP 250
CD-RW	Vipower	VP-8258 Mobile USB Adapter(DVD)
	SONY	Spessa CD-ReWritable Recorder
	Plextor	PX-S88TU (24R8W8RW)
	YAMAHA	CRW-70 (24R12W8RW)
FDD		Generic USB FDD
Flash H_ Disk	TREK	ThumbDrive USB Flash Hard Disk
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad
	Microsoft	SideWinder Strategic Commander
		SideWinder Game Voice
Joystick	Logitech	WingMan Formula Force joystick
	Microsoft	SideWinder Precision 2

8.5 Power Supply Products

Test Configuration:

OS Ver ☒ Win 2000 Ver: 5.00.2195
CPU Intel Pentium 4 1.8GHz(Northwood) ☒ Intel
Memory Elixir 256MB(elixir) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD Seagate ST-340016A 40GB IDE ☐ ATA/66 ☒ ATA/100
CD-ROM Pioneer DVD-105S 16X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
VGA Intel 845GL AGP **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound Realtek ALC201 AC'97 ☒ Onboard ☐ AGP 4X
Mouse Logitech TrackMan Marble Mouse **PCI_Slot:** ☐ On board
☐ COM ☒ PS/2

The following Power supply devices test Cool/Warm boot, restart and power management under Windows 2000 with over 5 times.

Vendor	Product Description	Power	Type
DELTA	DPS-250KB-3 A Rev:00	250W	ATX
	DPS-300KB-1 A Rev:00	300W	ATX
Seventeam	ST-250BLP	250W	ATX
	ST-250BLV	250W	ATX
	ST-250GL	250W	ATX
	ST-300BLV	300W	ATX
Enlight	HPC-340-101	340W	ATX
L&C	LC-A250ATX	250W	ATX
Seasonic	SS-250FS	250W	ATX
iCute	P4-3000TC	300W	ATX
Good Vision	XP-375X	375W	ATX
Adiance	PSIV-350-1 V2.03	350W	ATX
SD	SD-300W-12V	300W	ATX
Green An	ATX-1125BTA	300W	ATX
	ENP-0735	350W	ATX
HOPELY	ATX-300SE-P4	300W	ATX
	ATX-300S	300W	ATX
Golden Field	ATX-320WB&P4	300W	ATX
....	ST-ATX325	300W	ATX
STR	SPS-300W Rev:03	300W	ATX
HEDY(..)	DPS-250GB-2A	145W	ATX
Enhance	ENP-2120D	200W	SFX
HOPELY	ATX-180SE-PSIII	180W	SFX

9. Software Compatibility Test Suite

9.1 Base Operating System

9.1.1 Microsoft Windows 98 SE:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory KingMax 256MB(KingMax) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD WD Caviar WD600 60GB IDE ☐ ATA/66 ☒ ATA/100
VGA Intel 845GL AGP **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
☒ Onboard ☐ AGP 4X
Sound Realtek ALC201 AC'97 ☐ PCI_Slot: __. ☒ On board
CD-ROM NEC DV-5800A 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
LAN Realtek RTL8100BL ☐ PCI_Slot: __. ☒ On board
Mouse Microsoft IntelliMouse Mouse ☐ COM ☒ PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Format FDD	PASS	
FIC CD-PRO all M/B drivers Install & Test	PASS	
FIC CD-Plus V2.0 Auto run test	PASS	
CoreTest 92 (Transfer Rate test)	PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Defrag test	PASS	
Install Office XP	PASS	
Auto Shutdown (system power off)	PASS	
DVD play (name: <i>Deep Blue Sea</i>)	PASS	
Power Management	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
S3 (Suspend To Memory)	Power button	PASS
	Keyboard Sleep Key (98keyboard)	PASS
	Start → Stand By item	PASS
	Time Out	PASS
System Shutdown	Power button (Setting from PM)	PASS
	Start → Shut down item	PASS

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS Windows 98 SE	4.10.2222A	English	Microsoft	Pass

9.1.2 Microsoft Windows ME:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(Northwood) ☒Intel
Memory KingSton 256MB(Samsung) **Total: 512 MB** ☐PC1600 ☒PC2100
HDD Maxtor 54098H8 40.9GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100
Channel: ☒PM ☐PS ☐SM ☐SS
VGA Intel 845GL AGP ☒Onboard ☐AGP 4X
Sound Realtek ALC201 AC'97 ☐PCI_Slot: __ ☒On board
CD-ROM SONY DDU1621 16X IDE DVD **Channel:** ☐PM ☐PS ☒SM ☐SS
LAN Realtek RTL8100BL ☐PCI_Slot: __ ☒On board
Mouse Microsoft IntelliMouse Mouse ☐COM ☒PS/2

Test Item		Result	Remark
FDISK (FAT32)		PASS	
FIC CD-PRO all M/B drivers Install & Test		PASS	
FIC CD-Plus V2.0 Auto run test		PASS	
Device Management check (No Caution)		PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)		PASS	
Install Office XP		PASS	
Defrag test		PASS	
DVD play (name: <i>Deep Blue Sea</i>)		PASS	
Power Management (Stand By function)	Power button	PASS	
	Keyboard Sleep Key	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
S3 (Suspend To Memory)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
Hibernate (Suspend To Disk)	Power button	PASS	
	Start → Hibernate item	PASS	
	Time Out	PASS	
System Shutdown	Power button	PASS	
	Start → Shut down item	PASS	

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS Windows ME	4.90.3000	English	Microsoft	Pass

9.1.3 Microsoft Windows XP/Home Edition:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory Micron 512MB(Micron) **Total: 1000 MB** ☐ PC1600 ☒ PC2100
HDD Maxtor 6L060J3 60GB IDE ☐ ATA/66 ☐ ATA/100 ☒ ATA/133
VGA Intel 845GL AGP **Channel: ☒ PM ☐ PS ☐ SM ☐ SS**
Sound Realtek ALC201 AC'97 **☒ Onboard ☐ AGP 4X**
CD-ROM Pioneer DVD-116 16X IDE DVD **☐ PCI_Slot: __ ☒ On board**
LAN Realtek RTL8100BL **Channel: ☐ PM ☐ PS ☒ SM ☐ SS**
Mouse Microsoft IntelliMouse Mouse **☐ PCI_Slot: __ ☒ On board**
COM ☒ PS/2

Test Item		Result	Remark
Install Win XP with NTFS (boot from CD)		PASS	
FIC CD-PRO all M/B drivers Install & Test		PASS	
Device Management check (No Caution)		PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)		PASS	
Install Office XP		PASS	
Defrag test		PASS	
DVD play (name: <i>Deep Blue Sea</i>)		PASS	
Power Management (Stand By function)	Power button	PASS	
	Keyboard Sleep Key	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
S3 (Suspend To Memory)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
Hibernate (Suspend To Disk)	Power button	PASS	
	Start → Hibernate item	PASS	
	Time Out	PASS	
System Shutdown	Power button	PASS	
	Start → Shut down item	PASS	

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS Windows XP / Home Edition	2002	English	Microsoft	Pass

9.1.4 Microsoft Windows 2000 + Service Pack 2:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(Northwood) ☒Intel
Memory Samsung 512MB(Samsung) **Total:** 1000 MB ☐PC1600 ☒PC2100
HDD WD Caviar WD1000 100GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100
Channel: ☒PM ☐PS ☐SM ☐SS
VGA Intel 845GL AGP ☒Onboard ☐AGP 4X
Sound Realtek ALC201 AC'97 ☐PCI_Slot:_. ☒On board
CD-ROM Panasonic SR-8587-B 16X IDE DVD **Channel:** ☐PM ☐PS ☒SM ☐SS
LAN Realtek RTL8100BL ☐PCI_Slot:_. ☒On board
Mouse Microsoft IntelliMouse Mouse ☐COM ☒PS/2

Test Item		Result	Remark
Install Win 2000 with NTFS (boot from CD)		PASS	
Format FDD		PASS	
FIC CD-PRO all M/B drivers Install & Test		PASS	
VGA Resolution/Color change		PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)		PASS	
Install Office XP		PASS	
DVD play (name: <i>Deep Blue Sea</i>)		PASS	
Power Management (Stand By function)	Power button	PASS	
	Keyboard Sleep Key	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
S3 (Suspend To Memory)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
Hibernate (Suspend To Disk)	Power button	PASS	
	Start → Hibernate item	PASS	
	Time Out	PASS	
System Shutdown	Power button	PASS	
	Start → Shut down item	PASS	

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS Windows 2000 Professional	5.00.2195	English	Microsoft	Pass
Windows 2000 Service Pack	2.0	English	Microsoft	Pass

9.1.5 Microsoft Windows NT 4.0 + Service Pack 6:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(Northwood) ☒Intel
Memory Infineon 512MB(Infineon) **Total: 1000 MB** ☐PC1600 ☒PC2100
HDD IBM DTLA-307060 61.4GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100
Channel: ☒PM ☐PS ☐SM ☐SS
VGA Intel 845GL AGP ☒Onboard ☐AGP 4X
Sound Realtek ALC201 AC'97 ☐PCI_Slot: __. ☒On board
CD-ROM Lite-On LTD-163 16X DVD-ROM **Channel:** ☐PM ☐PS ☒SM ☐SS
Mouse Logitech Mouse+ Mouse ☐COM ☒PS/2

Test Item	Result	Remark
Install Win NT with NTFS (boot from CD)	PASS	
Install Service Pack 6.0	PASS	
Format FDD	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
VGA Resolution/Color change	PASS	
Large file Copy (one file Over 500MB)	PASS	
VCD/DVD play (name: <i>Deep Blue Sea</i>)	PASS	
CC WinStone 2002	PASS	37.5
WinStone 2001 V1.02	PASS	47.2

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
Windows NT Workstation	4.0	English	Microsoft	Pass
Windows NT Workstation Service Pack	6.0	English	Microsoft	Pass

9.1.6 IBM OS/2 4.0:

Test Configuration:

CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Apacer 256MB (Nanya) **Total: 256 MB** ☐ PC1600 ☒ PC2100
HDD Fujitsu MPB3032AT 3.2GB IDE ☐ PIO4 ☒ ATA/33
VGA Intel 845GL AGP **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Acer DVP 1640A 16X IDE DVD ☒ Onboard ☐ AGP 4X
Mouse Logitech Mouse+ Mouse **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
☐ COM ☒ PS/2

Test Item	Result	Remark
Install OS/2 (HPFS)	PASS	
Format FDD	PASS	
XCOPY	PASS	
Diskcopy	PASS	
VGA Resolution/Color change	PASS	
DOS Windows	PASS	
OS/2 Windows	PASS	

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board.Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
IBM OS/2 Warp	4.0	English	IBM	Pass



Test Engineer:

BIOS: Benson Shen

OS: Kai Dane

I/O : Leon Liang

Audio: Lion Liou

CPU: Stevent Huang

VGA: Scott Lin

Memory: Kevin Lin

IDE Devices: Kai Dane

Check by: Lion Liou

Ownership: Benson Shen